

[illegible]

**FIG. 1A**

2/10

GAT Asp 130	TTT Phe 130	AAA Lys	GAA Glu 135	GAT Asp 135	GGA Gly 135	AAC Asn 135	ATT Ile 135	CTT Leu 135	GGA Gly 135	CAC His 140	AAA Lys 140	TTG Leu 140	GAA Glu 140	TAC Tyr 140	AAC Asn 140	432
TAT Tyr 145	AAC Asn 145	TCA Ser	CAC His 150	AAT Asn 150	GTA Val 150	TAC Tyr 150	ATC Ile 150	ATG Met 150	GCA Ala 155	GAC Asp 155	AAA Lys 155	CAA Gln 155	AAG Lys 160	AAT Asn 160	GGA Gly 160	480
ATC Ile 165	AAA Lys 165	GTT Val 165	AAC Asn 165	TTC Phe 165	AAA Lys 165	ATT Ile 165	AGA Arg 165	CAC His 170	AAC Asn 170	ATT Ile 170	GAA Glu 170	GAT Asp 175	GGA Gly 175	AGC Ser 175	GTT Val 175	528
CAA Gln 180	CTA Leu 180	GCA Ala 180	GAC Asp 180	CAT His 180	TAT Tyr 180	CAA Gln 180	CAA Gln 185	AAT Asn 185	ACT Thr 185	CCA Pro 190	ATT Ile 190	GGC Gly 190	GAT Asp 190	GGC Gly 190	CCT Pro 190	576
GTC Val 195	CTT Leu 195	TTA Leu 195	CCA Pro 195	GAC Asp 195	AAC Asn 195	CAT His 195	TAC Tyr 200	CTG Leu 200	TCC Ser 200	ACA Thr 205	CAA Gln 205	TCT Ser 205	GCC Ala 205	CTT Leu 205	TCG Ser 205	526
AAA Lys 210	GAT Asp 210	CCC Pro 210	AAC Asn 210	GAA Glu 210	AAG Lys 210	AGA Arg 215	GAC Asp 215	CAC His 215	ATG Met 215	GTC Val 220	CTT Leu 220	CTT Leu 220	GAG Glu 220	TTT Phe 220	GTA Val 220	672
ACA Thr 225	GCT Ala 225	GCT Ala 230	GGG Gly 230	ATT Ile 230	ACA Thr 230	CAT His 230	GGC Gly 235	ATG Met 235	GAT Asp 235	GAA Glu 235	CTA Leu 235	TAC Tyr 235	AAA Lys 235	TA		716

FIG. 1B

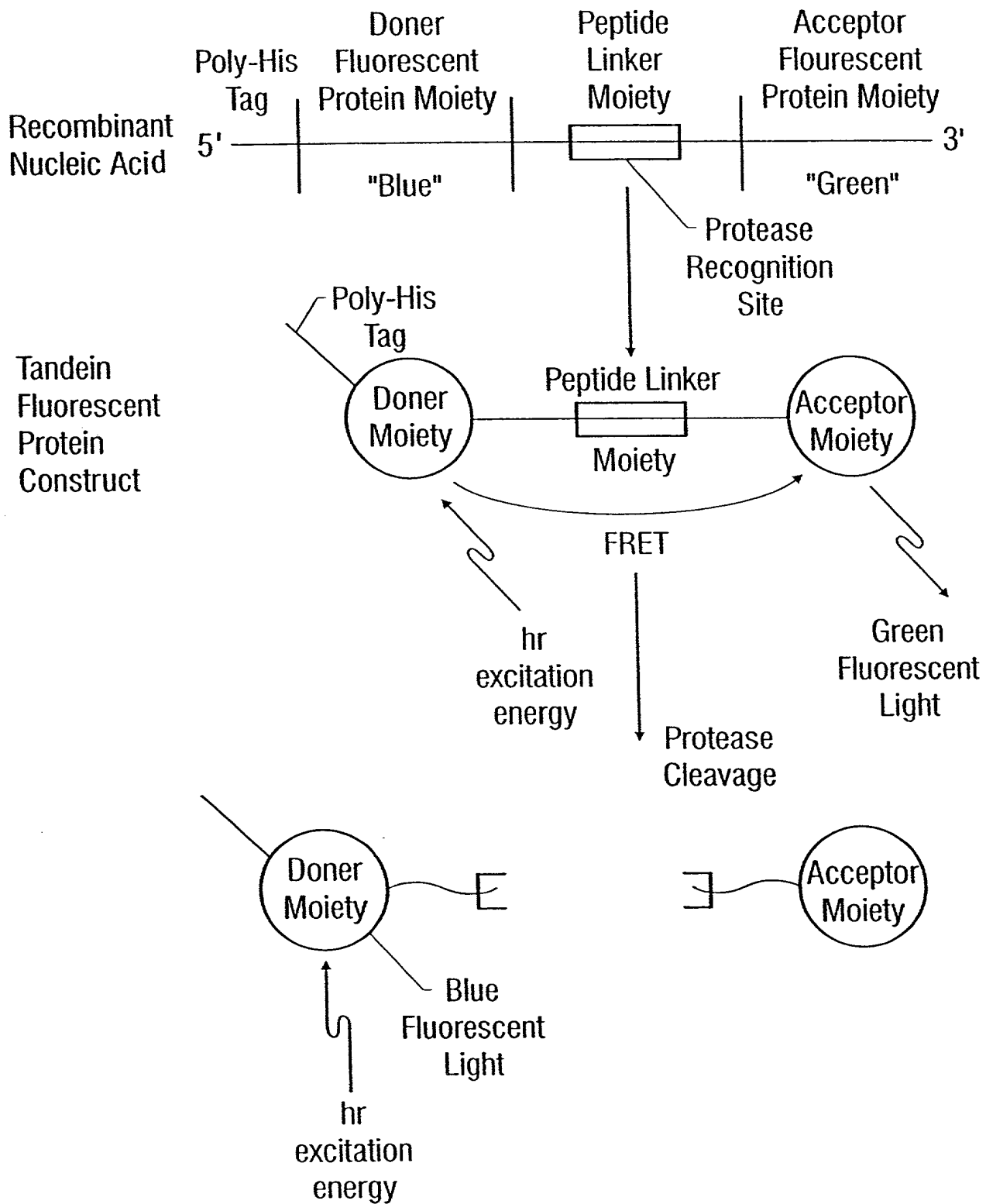


FIG. 2

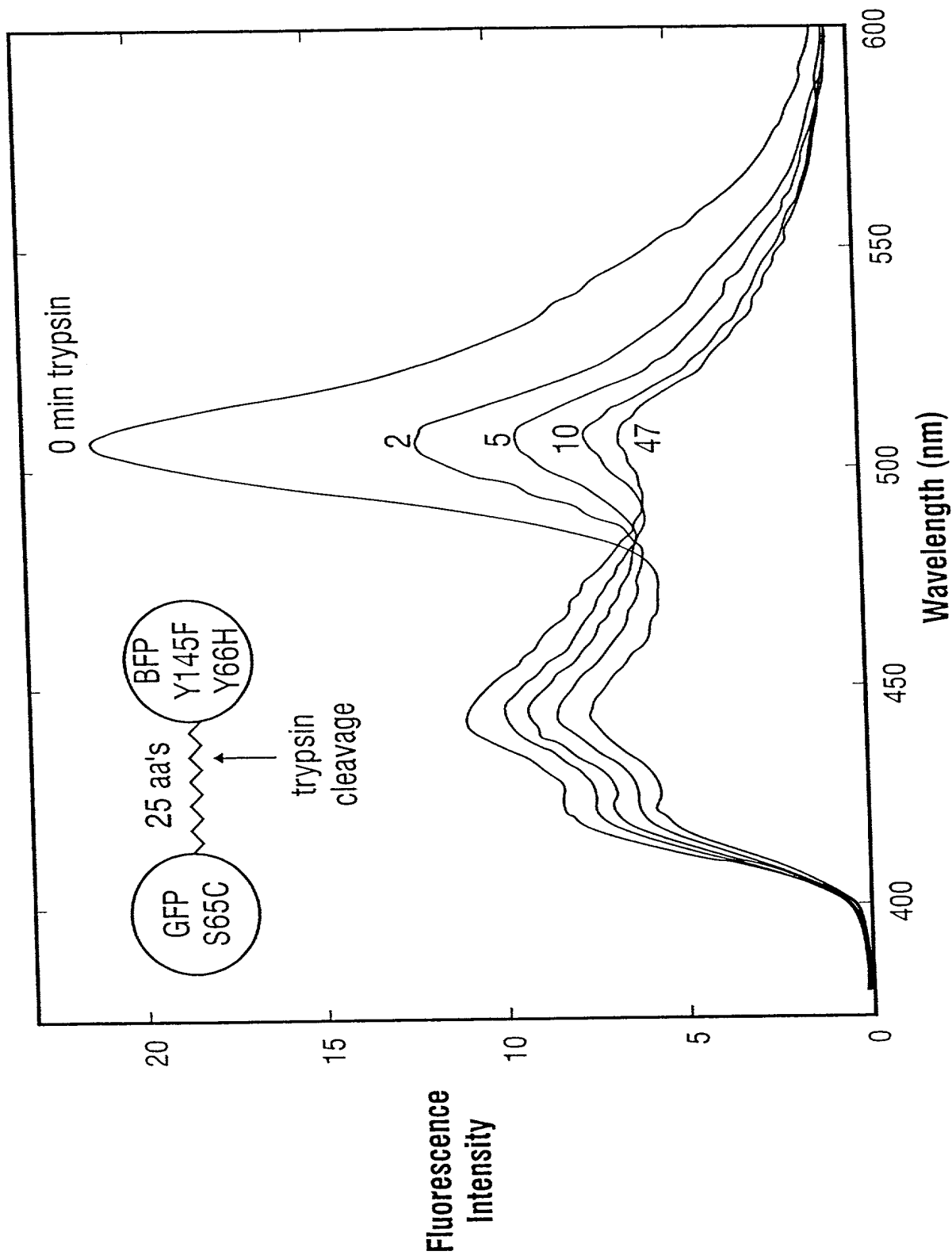


FIG. 3

<b>SPE</b>	<b>CLC7.SPT</b>	<b>P43/S65T1mMEGTA2ulcalp18' ex36</b>	<b>11/28/95</b>
12:34	<b>CLC8.SPT</b>	<b>P43/S65T1mMCA2ulcalp2' ex36</b>	
	<b>CLC9.SPT</b>	<b>P43/S65T1mMCA2ulcalp6' ex368</b>	
	<b>CLC10.SPT</b>	<b>P43/S65T1mMCA2ulcalp15' ex368</b>	

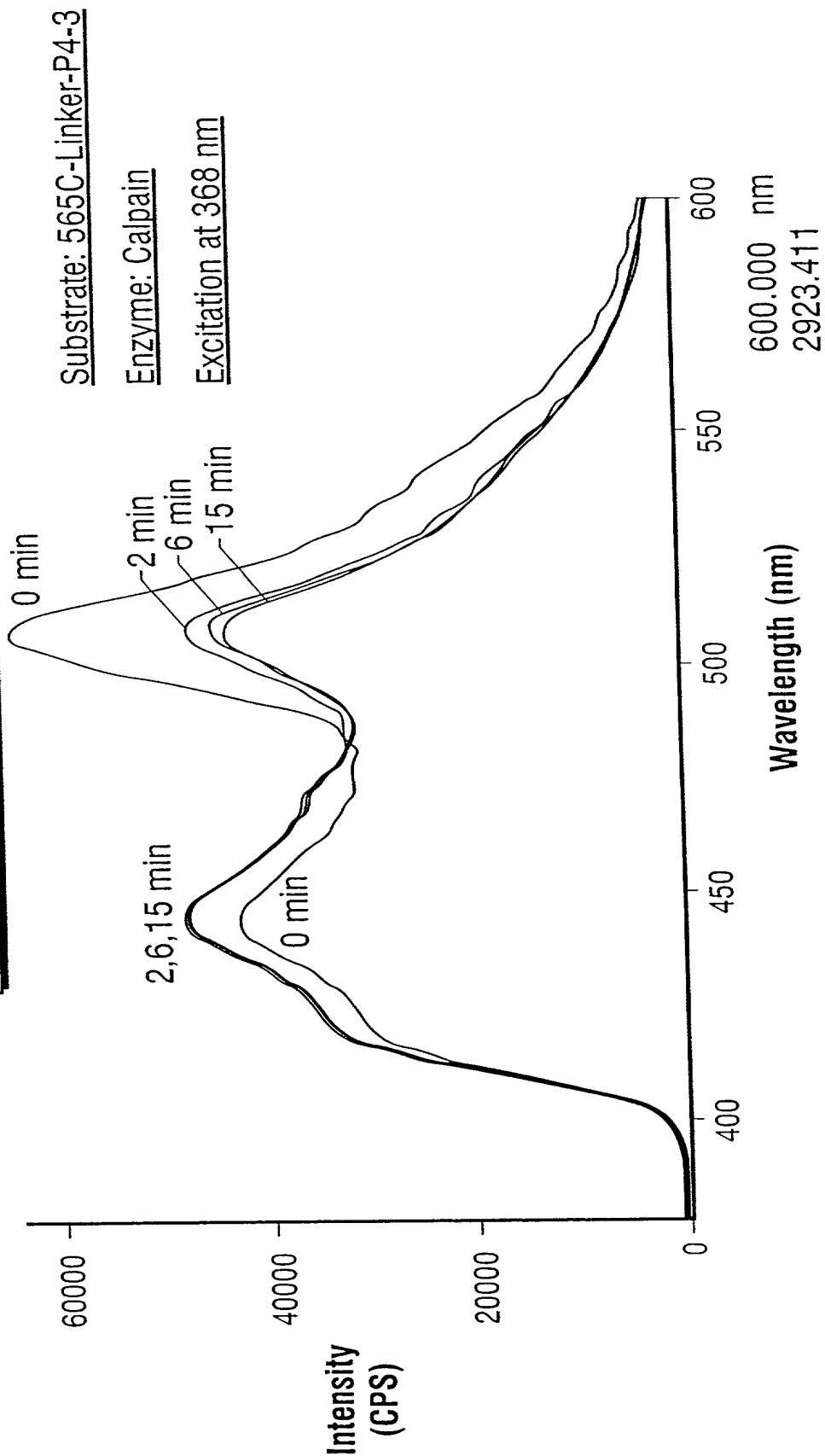


FIG. 4

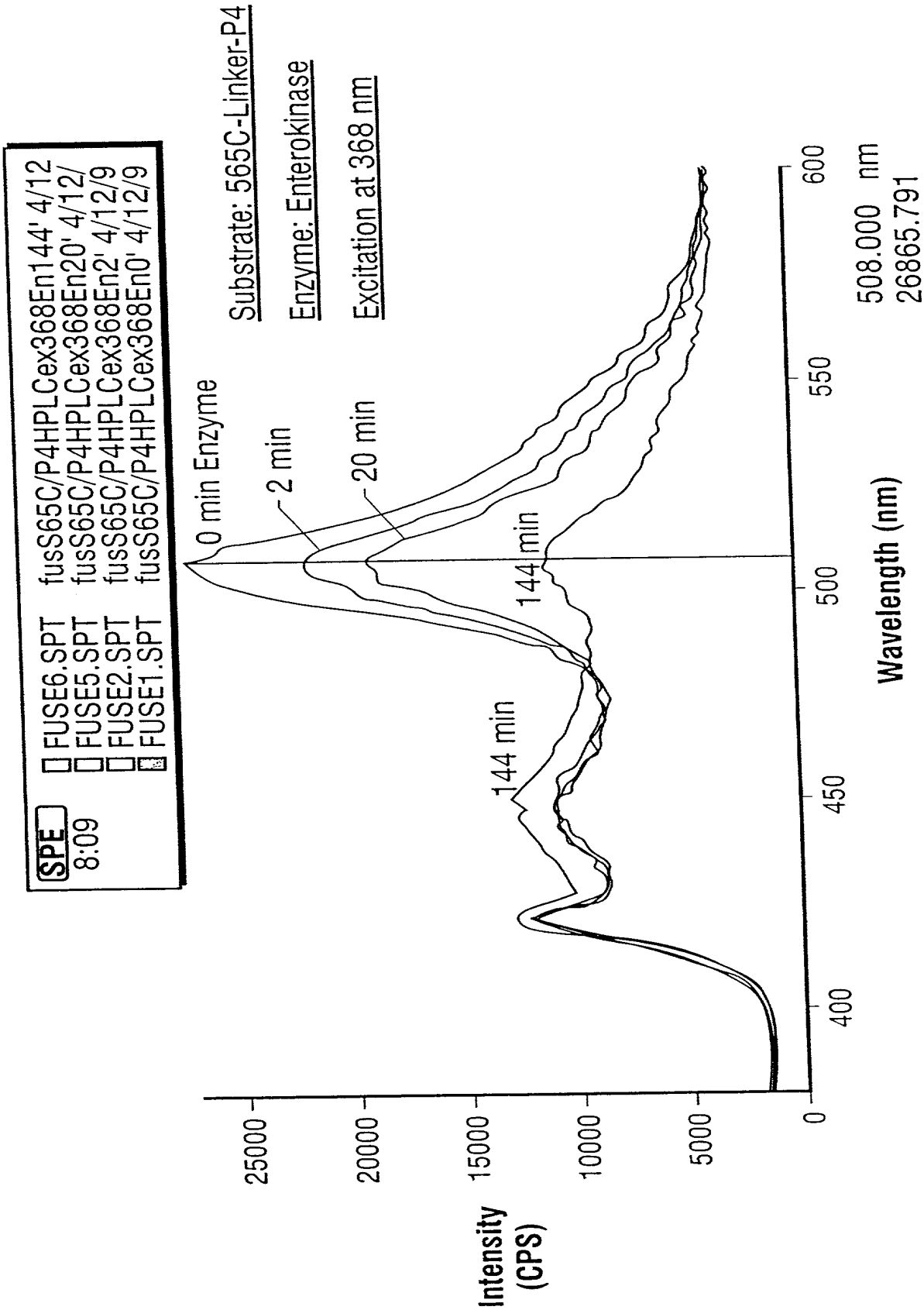


FIG. 5

SPE

4:31

SW744.SPT

SW743.SPT

S65T/W7

S65T/W7

HPLCex432 + try 6/6/95

HPLCex432 6/6/95

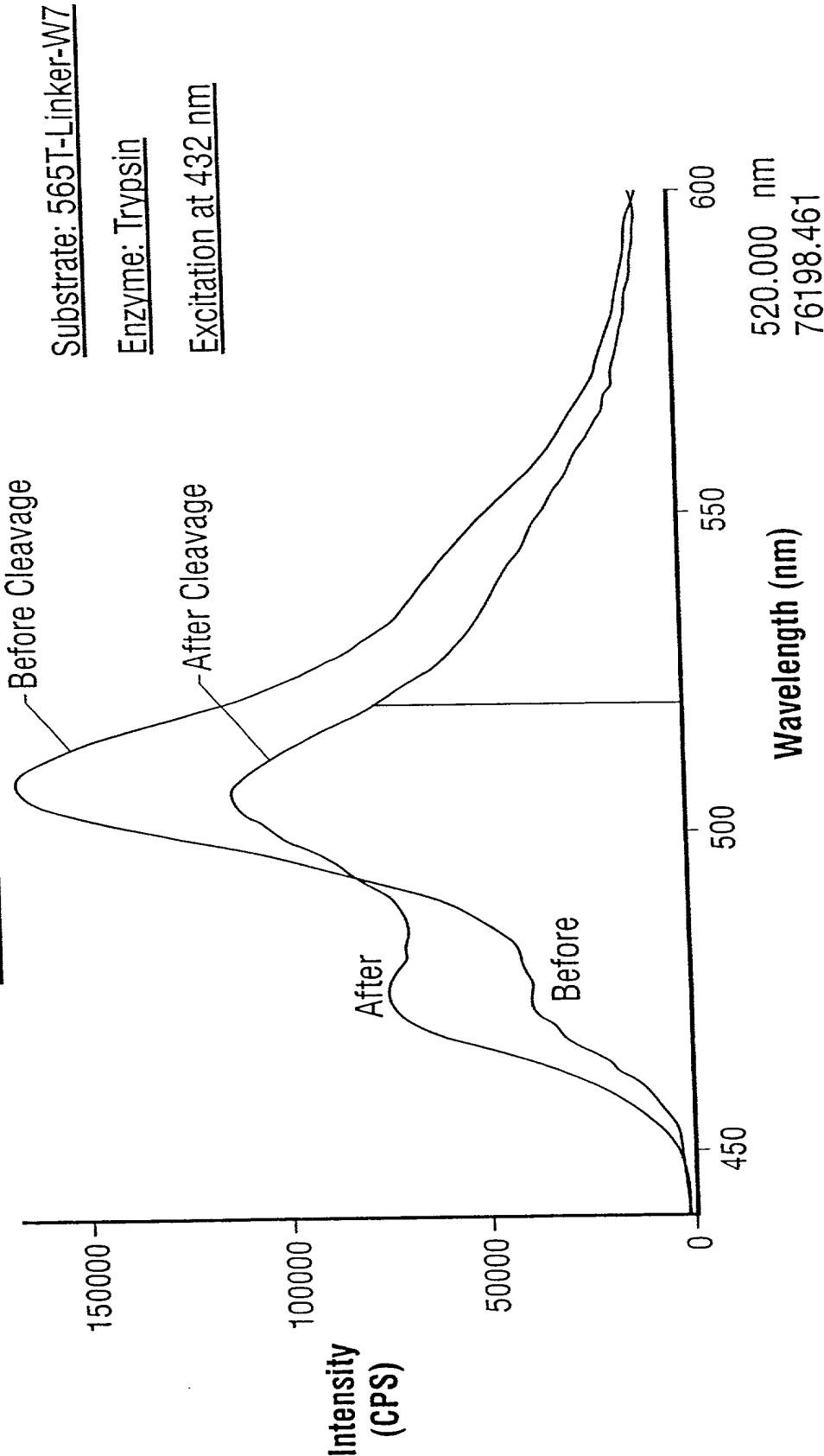
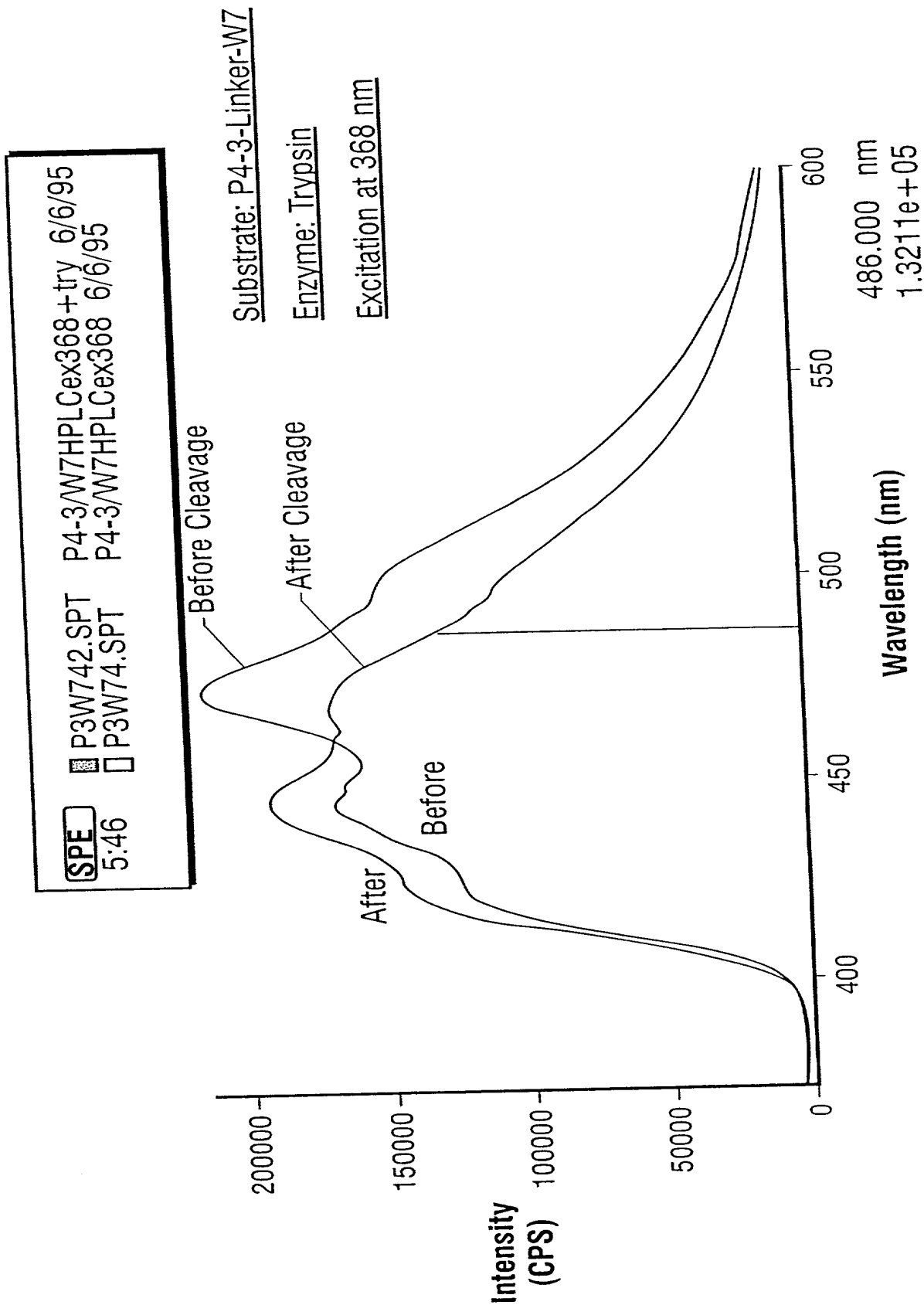


FIG. 6





9/10

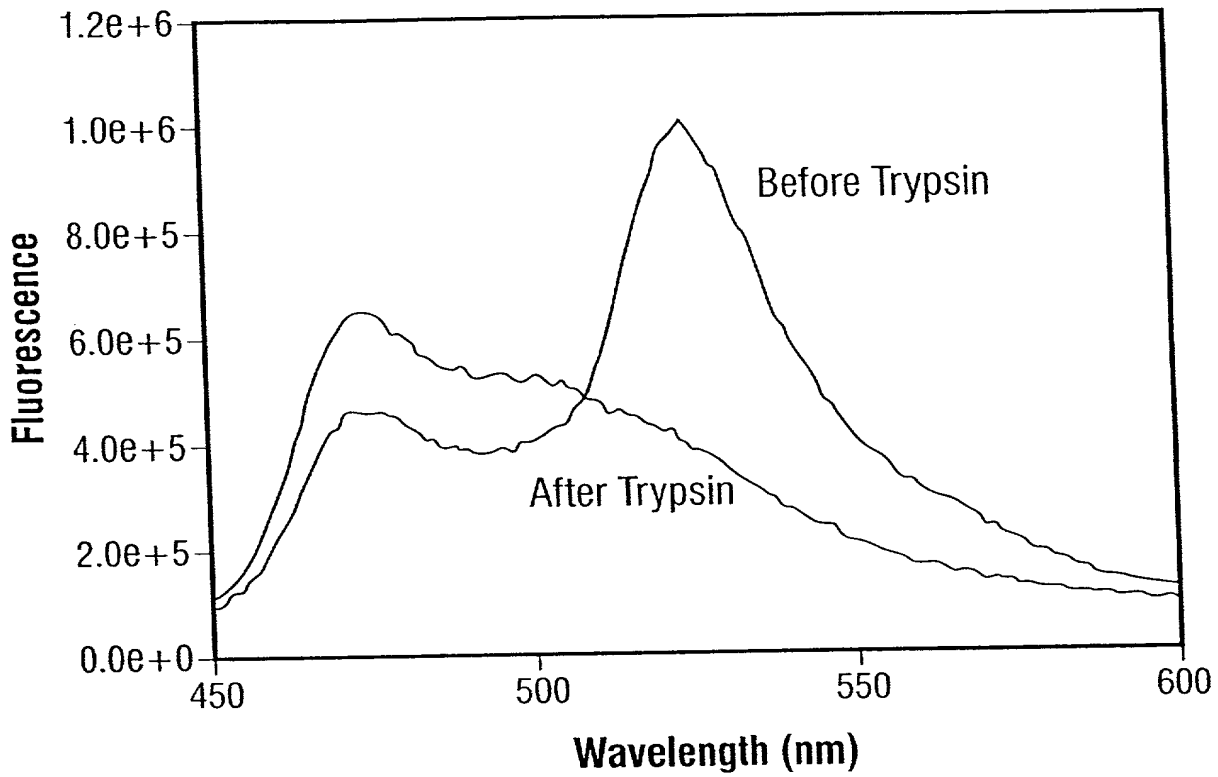


FIG. 8

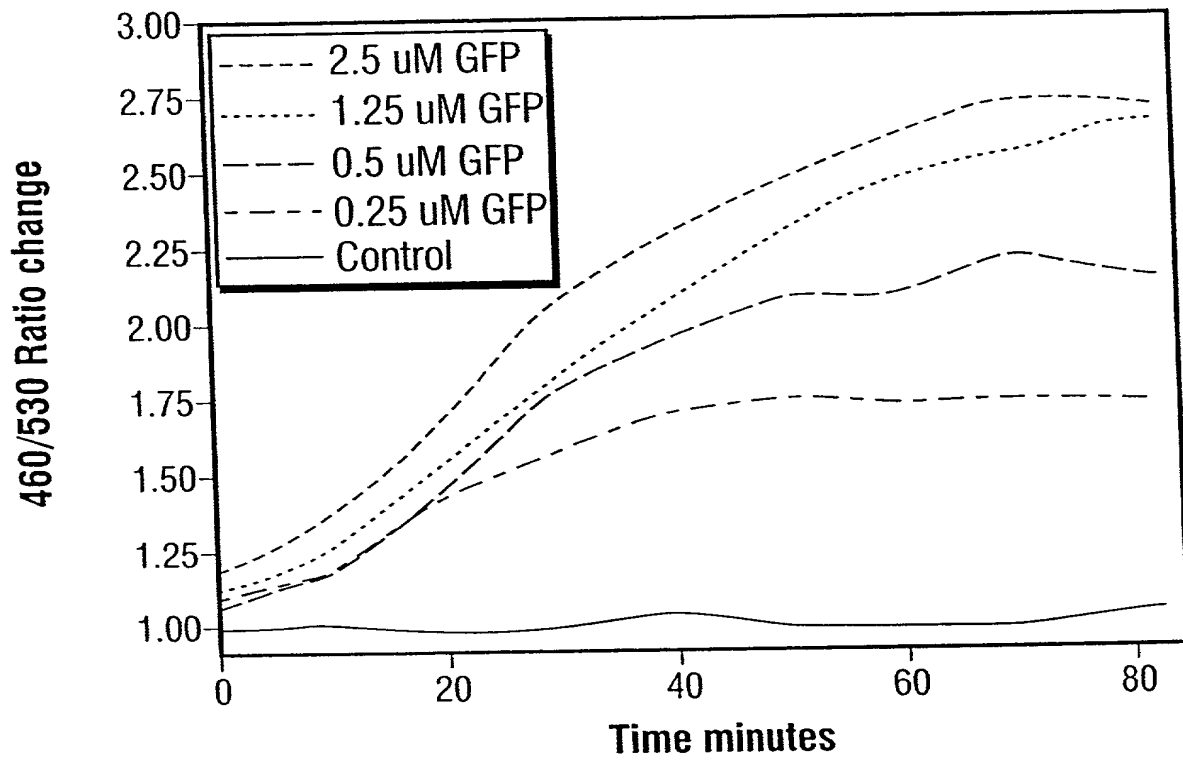


FIG. 9

10/10

### PCR to add randomized linker

Fluorescent protein moiety

Hind III



EcoR1

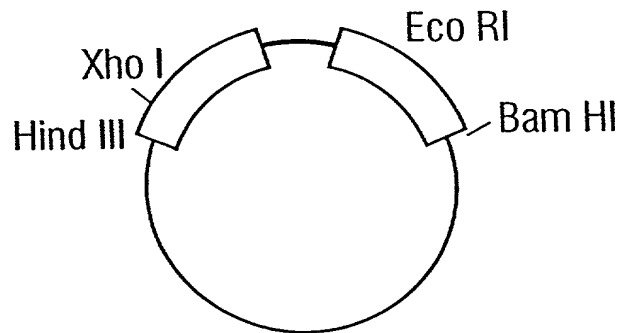
Randomized linker

Eco RI  
Hind III

Bam HI

Acceptor  
pRSET-A

Subcloning into expression  
cassette containing acceptor  
fluorescent protein



Transfection and Screening in cells to  
identify sequences that are cleaved when  
co-expressed with the target enzyme

FIG. 10